# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 09/02/2021 08:48 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124466 | -1 | 1.30 | 124356 | 1.29 |
| Blue | F | SSC | 125000 | 124145 | -1 | 2.91 | 124383 | 2.74 |
| Blue | E | FITC | 13131 | 12711 | -4 | 2.28 | 294 | 15.04 |
| Blue | D | PE | 24112 | 23743 | -2 | 1.65 | 547 | 10.42 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30801 | -2 | 2.98 | 1023 | 14.04 |
| Blue | A | PE-Cy7 | 19939 | 19822 | -1 | 5.17 | 531 | 28.62 |
| Red | C | APC | 42122 | 41677 | -2 | 3.11 | 1747 | 11.14 |
| Red | A | APC-Cy7 | 22340 | 21684 | -3 | 3.39 | 811 | 11.21 |
| Violet | B | V450 | 7410 | 7060 | -5 | 3.83 | 436 | 12.24 |
| Violet | A | V500 | 28118 | 26826 | -5 | 3.45 | 674 | 9.86 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 22894 | 1.02 | 565 | -4 | N/A | N/A | Pass |
| Blue | F | SSC | 57861 | 1.11 | 516 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 55 | 53.22 | 483 | -4 | 0.0469 | 151 | Pass |
| Blue | D | PE | 115 | 36.61 | 486 | -2 | 0.4869 | 375 | Pass |
| Blue | B | PerCP-Cy5-5 | 190 | 35.41 | 581 | -5 | 0.0217 | 110 | Pass |
| Blue | A | PE-Cy7 | 108 | 66.33 | 623 | -5 | 0.0228 | 1 | Pass |
| Red | C | APC | 404 | 23.81 | 577 | 1 | 0.0305 | 259 | Pass |
| Red | A | APC-Cy7 | 182 | 26.87 | 550 | -1 | 0.0071 | 1374 | Pass |
| Violet | B | V450 | 61 | 61.19 | 461 | 8 | 0.0647 | 2294 | Pass |
| Violet | A | V500 | 97 | 32.62 | 472 | 7 | 0.0255 | 596 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 09/02/2021 08:48 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 09:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.64 | -31.45 | 0.97 |
| Blue | 20.36 | 16.28 - 24.42 | 1.28 | 1.02 - 1.52 | 0.00 | 0.00 | 1.42 |
| Red | 15.65 | 13.60 - 20.40 | N/A | N/A | 29.86 | 30.10 | 1.23 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 10301

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments